

CLASS DAY TALK TO BE DELIVERED BY PROF. MILLER

Head of Mechanical Engineering
Department Will Speak
On June 15

ENTERTAINMENT PLANNED

Representatives of All Courses
Will Take Part in a
Comedy Skit

Professor E. F. Miller '86, Head of the Department of Mechanical Engineering, will deliver the Class Day address to the Seniors on June 15, as part of the commencement exercises. "Whether or not there will be the usual fatalities among boiler workers is not known," states the "Senior Rumor," "But if not, Professor Miller has enough to say to keep us from counting the flowers on Walker's air registers."

The speech of welcome will be given by W. W. Northrop '25, and President G. L. Bateman will present the Class gift of the Endowment Fund to the Institute. For the entertainment the committee has prepared a skit, put on by members of every course. According to those in charge, this skit will also serve to make the members of the Senior Class better acquainted with the Faculty, Institute, and class itself before leaving Technology. It is expected that the nature of the act will be a series of startling "exposures" of the more popular men associated with the class. A prize had been offered for the best suggestion for the entertainment, but inasmuch as none was received, the committee assumed the burden and promises that their offering will amuse one and all.

Tea Dance Follows in Walker
The Tea Dance will follow in the Main Hall of Walker as soon as the chairs have been removed. Ted Von himself and his Putnam Lodge Orchestra of six syncopators will furnish music for the dancing which will continue from about 3.30 to 6.30 o'clock. Matrons for the tea have not as yet been announced.

Commencement Exercises will begin promptly at 2 o'clock on Tuesday. If the weather is favorable, the assembly will be in Du Pont Court, otherwise the Cambridge Armory seating about 3500, will be utilized. All candidates for degrees must appear in academic cap and gown, and the Faculty and graduation officers will be similarly robed. R. O. T. C. men who are eligible to receive their commission upon graduation will be required to wear their uniforms under their gowns, but not their military caps.

WILL REVEAL NATURE OF "ZIZZ" AT REUNION

Zizz and the secret of its use will be shown to the Alumni who return for the All Technology Reunion in June. Zizz is the new force which a Xerxes Y. Zizziter of the Institute has discovered, and according to reports issued by the Alumni Association which has secured exclusive rights to the discovery, the new force is derived from the release of atomic energy.

Zizziter discovered the basic principles upon which his method is based, after which he succeeded in concentrating it. A whole island in the harbor has been reserved for the demonstration. The Boomerang, the official organ of the Reunion, stated that Gerard Swope '95, president of the General Electric Company, has tried to buy the invention but was refused. In addition, many death threats have been received by Zizziter, so many in fact, that his demonstration on the island will be heavily protected by a bodyguard.

ANNOUNCE ELECTIONS TO CHEMICAL SOCIETY

The results of the election of officers for 1925-1926 by the Chemical Society are as follows: President, D. H. McCulloch '26; Vice President, P. L. Mahoney '26; Secretary, J. R. MacDonald; Treasurer, Stanley Cheney '26; Trip Manager, Lyman Billings '26; Combined Professional Societies representative, W. E. Lobo '26; Program Committee, J. W. Searles '26 and C. R. Washburn '26.

FACULTY WILL AWARD B. S. DEGREES JUNE 10

At a meeting of the Faculty on June 10, diploma awards to applicants for Bachelor of Science will be made. At present there are 466 students who expect to graduate from the Institute in June. Applications not accepted will probably be placed upon the October list. Advanced degrees will be acted upon at a meeting on June 9. The number of applicants for these degrees are as follows: Doctor of Philosophy, 10; Doctor of Science, 6; Master in Architecture, 6; Master of Science and Bachelor of Science, 29; Master of Science, 100.

OFFICERS OF AERO SOCIETY ELECTED

Porter Adams Chief Speaker at
Annual Banquet—Free
Flights Given

"Reminiscences" was the subject of the talk by Porter Adams, vice president of the National Aeronautic Society, and president of the Aero Club of New England at the annual banquet of the Aeronautical Society Wednesday evening.

Mr. Adams worked in the first Institute building in Cambridge which was the wind tunnel. He told of some very amusing experiences he had when first flying in 1909 and ended his talk with a splendid tribute to Professor Warner and his work. He said that the Institute leads the world in the furtherment of Aeronautics and will continue to do so in the future.

Captain Boore Also Speaks
Captain C. P. Boore, a Boston lawyer who served in the air service during the war, spoke on the "Future of Aeronautics," and also discussed the "Lone Wolf" case which he handled recently. C. F. Taylor, in charge of engine design at the Wright Aero Motors Corporation, described the 400 horse-power "Cyclone" radial, aircooled motor recently completed for the Army. Warren Noble, in charge of naval motor research, spoke on the 200 horse-power motor with hydraulic valves recently delivered to the Navy. Professor E. P. Warner spoke on the history of Aeronautics at the Institute.

Over 50 members and non-members were present at the banquet. Cards were drawn by Captain Gilkenson for the free air flights, the lucky men being M. W. Libbey '26, B. S. Kelsey '26, J. B. Wright '26, and F. M. Towle '26. Twelve other members signed up for flights over the Institute at the special rate offered to the Aero Society.

It was announced that G. G. Davidson '26 had been elected president of the society for the coming year. Other officers include F. T. Kurt '27, vice president; R. W. Hunter '28, treasurer; Erik Hoffman '27, secretary; B. A. Gillies '27, Combined Professional Societies Representative. The society is conducting a trip this afternoon to see the hydraulic valve motor which Warren Noble described at the banquet. Members wishing to go will meet in the main lobby at 3.05.

LAST DORM DANCE TO TAKE PLACE TONIGHT

Dancing will begin at 8.30 tonight at the last Dorm Dance of the season. Tickets for the affair may be obtained today in the main lobby from 12 to 2 o'clock, and may also be secured from members of the committee, at the door.

No stag tickets are being sold for the dance, which is semi-formal. According to the committee an unusually large number of tickets have been sold so far so that a large attendance is expected. Syncopation will be furnished to 1.00 o'clock by the Technicians making their first appearance at a Dorm Dance this season. Some question having been raised, the committee wishes to state that inasmuch as the affair is semi-formal, evening clothes or other dark clothes will be suitable. The dance is the last one which will be given by the old committee which is headed by R. T. Ashworth '25. The patronesses who will be present are: Mrs. A. A. Branchard, Mrs. S. C. Prescott, and Mrs. R. L. Passano.

TECHNOLOGY AND BOWDOIN FAVORED IN NEW ENGLANDS ON TECH FIELD TOMORROW

Ten Years of Track And Field Champions

1914	Dartmouth College
1915	Dartmouth College
1916	Dartmouth College
1917	Technology
1918	Technology
1919	Technology
1920	Technology
1921	Technology
1922	M. I. T. and B. C. (tie)
1923	Bowdoin College
1924	Boston College

Twenty-two Colleges to be Represented in Annual Meet. Semi Finals Held Today and Finals Saturday

Technology and Bowdoin are the favorites in the Thirty-Ninth Annual New England Intercollegiate Track Meet, the trials to be held this afternoon at four o'clock on Tech Field and the finals tomorrow afternoon at two-thirty. The Engineers will try as they have never tried before in order to make a good beginning in their campaign to regain that track prestige that was the pride of every member of the Institute from 1917 to 1922.

Bowdoin is depending upon Captain Foster in the half mile, who has won the title for the past two years and is favored for the race Saturday; "Duke" Charles, who is sure of winning both the discus throw, with a new record in view, and the shotput; and Hal Littlefield, who cleaned up the hurdles in last year's New England.

Steinbrenner High Scorer

Boston College is fairly certain of a first in the two mile by the nationally known George Lermond; at least one place and possibly two in the half mile and they have been counting on Mike Murphy winning the high hurdles. Then Tom Cavanaugh and Louis Welch are bound to win a place in the mile. Looking over the scoring power of all the teams entered the fact is to be noted that B. C., though strong in the running events is notoriously weak in the field events. The other possible winners, Tech and Bowdoin, are strong in the field events and also have stars entered in those events that B. C. counts on for most of her points—that is the 880 and hurdles.

Hank Steinbrenner is conceded first place in the low hurdles and a second over the high barriers, by virtue of his splendid showing against Princeton, Harvard and Cornell. Against the Ithacans he walked away with both hurdles events winning the lows in the exceptional time of 24 1-5s which is a fifth second better than the New England record, and coping the high hurdle event in 15 4-5s. Steinbrenner's rivals in the low hurdle event are Littlefield of Bowdoin and C. S. Wishard of Williams who finished one-two in the meet last year. Whoever wins this event will have to smash the record sure.

Hank Steinbrenner will also have his work cut out for him in the high barriers as Charles Drew of Amherst,

(Continued on Page 3)

FUND COMMITTEES ARE SOLICITING POLICIES

Final Effort Is Being Made to Increase Endowment

Committees are soliciting the men in the Senior Class who have not taken out policies in the Class of 1925 endowment drive. A meeting of the committee in charge was held, and all members of the sub-committees, who will do the soliciting, have received application blanks for the men, whom they are to see. The forms are completely filled out with the exception of the signature of the applicant, so that it is only necessary for him to take time to sign his name.

In last year's drive for the 1924 endowment fund, the method of personal approach was used and the results were much better than those attained this year by publicity methods. The committees are making a final effort this week to see every man, and provided that positive results are obtained, will close the campaign within the week.

CALENDAR

Friday, May 22
3:00—Aero Society trip.
5:00—Meeting of Choral Society, Room 5-330.
8:00—Dorm dance, main hall, Walker.
Monday, May 25
9:00-5:00—Civil Engineering Society elections in room 1-375.

Institute Committee will Finance Three Athletes to I. C. A. A. A. Meet

Retiring Chairman Surrenders
Gavel to New Senior
President.

Three men will represent Technology in the I. C. A. A. A. track meet at Philadelphia a week from tomorrow it was decided at the meeting of the Institute Committee last evening. For this, the last meeting of the 1925 and the first of the 1926 committee, President S. W. Stratton entertained at his home on Charles River Road. After disposing of its business, the 1925 Institute Committee adjourned and its Chairman, G. L. Bateman '25 surrendered the gavel to D. A. Shepard, president of the Class of 1926.

Funds for the trip to Philadelphia were not provided for in the budget of the M. I. T. A. A. this year, so that it was necessary for the Institute Committee to take this action if the Institute is to be represented at the meet. The expenses of the trip will be paid out of the reserve and contingent fund set aside from undergraduate dues.

President Thanks Committee
In a short talk at the beginning of the meeting, President Stratton thanked the Institute Committee for its cooperation during the past year and congratulated it upon the dispatch with which it handled its business. He pledged the support of the official Institute to the new organization. In passing, he stated that he was pleased with the way student government at the Institute was operating.

Abolition of the present inter-class Executive Committee was recommended in the report of the committee on revision of the constitution of the Undergraduate Association. If the recommendations of the report are adopted, each class will have an executive committee composed of the class officers and two members-at-large who now are the representatives on the interclass body. It was also proposed that the system of section leaders be abolished, except in the case of the freshman class. These section leaders will hold office only until the freshman class officers are selected, it was suggested. The matter will be settled at a later meeting of the Institute Committee.

Report in Pamphlet Form
The annual report of the undergraduate Finance Committee was submitted and approved. For the first time in the history of undergraduate affairs this report was presented in pamphlet form, containing the balance sheet for each of the activities with a review of the financial record of the major ones for the past two years.

At the close of the 1925 meeting, the 1926 Institute Committee took charge, electing L. E. Bannon '27, as vice-president; G. S. Frisbie '26, secretary; L. W. Cummings '26, treasurer; and M. M. Greer '26, member-at-large on the executive committee.

Elections for the ensuing year and several activities were approved by the old committee. They were as follows: Tech Show 1926, Combined Musical Clubs, Technique, Combined Professional Societies, Aeronautical Engineering Society, Chemical Society, Army Ordnance Society, Mining Society, Architectural Society, and Corporation XV.

AUTOMOBILE TALK GIVEN WEDNESDAY

Professor Pierre Lemaire Gives
The First of a Series of
Seven Lectures

According to our principles of dynamics, it will be impossible for automobile manufacturers to solve the problem of maximum riding comfort through the development of better springs alone, explained Professor Pierre Lemaire, third French exchange professor, in his lecture on "The Design and Proper Adjustment of Automobile Parts," which he gave Wednesday, at 2 o'clock in room 3-270.

Previous writers on this subject did not consider the chassis as moving, but as static. Professor Lemaire told of many other factors besides spring suspension that have to be considered when a solution of the problem of maximum riding comfort is attempted through an application of the laws of dynamics. He told of experiments he had made along these lines in trying to find points in automobile design necessary for comfort.

Swinging Motion Tested
One of the experiments described was made to determine the sensations caused by different swinging motions. Different subjects were seated in a swing-like apparatus and it was found that both the amplitude and period of the swing could be changed all unknown to the subject. Another factor to be taken into consideration, said Professor Lemaire, is the center of percussion. He also explained what is to be expected of stabilizing devices and their efficiency in minimizing shock. Devices on the market today are not satisfactory, he said.

The lecture Wednesday was the first of a series of seven which Professor Lemaire, who is Assistant Director of the "Ecole Centrale Lyonnaise," is giving. The remaining lectures will be given in room 3-270 as follows: today at 10 o'clock; Tuesday, May 26 at 12 o'clock; Wednesday, May 27 at 12 o'clock; Thursday, May 28 at 12 o'clock; and Friday, May 29 at 10 o'clock.

COMBINED SOCIETIES ELECTIONS ANNOUNCED

At a regular meeting of the Combined Professional Societies held Thursday May 14, officers were elected for the coming year. S. W. John '26, former president of the Electrical Engineering Society, was elected chairman; L. B. Riley '27, vice chairman; D. J. Bloomberg '26, secretary; K. E. Hill '26, treasurer.

At a later special meeting of the chairmen of the Combined Professional Societies, held Wednesday, May 20, S. W. John '26, the new chairman of the Societies was also elected representative to the Institute Committee.

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ANOTHER MASS MEETING—BE THERE!

"AGGRESSIVE Optimism" is what is desired from the student body in relation to Technology athletics. As long as the attitude to which our teams are exposed is one of resigned pessimism they cannot win. Pessimism and optimism are both infectious. Most of the teams at the Institute are badly in need of exposure to a case of optimism. Probably the undergraduates are in similar need.

It is for this purpose that pep meetings are organized and this is the motive of the one tomorrow. If a good crowd gets out, catches the spirit of optimism which will be present and transmits it to the track team, a considerable amount of much needed confidence will be created.

As snappy a program as can be crowded into ten minutes has been prepared. The Calumet Club, which is sponsoring the meeting, will see that things start promptly and are carried through with vigor.

The Crew meet which was held some weeks ago gave promise that success would come to future ventures of the kind. As a test it was itself highly successful, but now that we know what can be done a continually better crowd should be present. More men can and should be present.

The team will be present. In a few short hours they will go into the New England meet. They are going to do their best in any case, but the vision of an apathetic backing will not help. It is up to each individual to see that they do not have this vision.

CURRENT EVENTS

If someone should ask you, "What is your opinion on the repayment of war loans?" What would be your reply? It is likely that, having glanced at the headlines on your way to the sporting page, you might be in a position to reply briefly one way or another, depending upon the political hue of the paper to which you had recently been subjected. Suppose your interrogator happened to be one of those painfully inquisitive persons and further inquired your reasons—what then?

It would be safe to assume that a majority of us have but a vague idea of the significance of the day's events. Perhaps happenings of world-wide importance occur so frequently in these times that they become commonplace, but surely they are of no less interest than yesterday's box-score. Most of us can glibly name a score of prominent athletes, matching each of them with a movie actress and then toss in the family and alias of a murderer or two, but who is the president of France and why?

In other words what is the use of an education if it does not open our eyes to the things that occur about us? The information is on the front page of every newspaper and still we ignore, with easy nonchalance, news of things that are likely to have powerful effects on the course of history. If we adopted the same methods in crossing a street that we do in crossing a newspaper, the morgue attendants would be drawing time and a half for overtime and double time for Sundays.

PATERNALISM

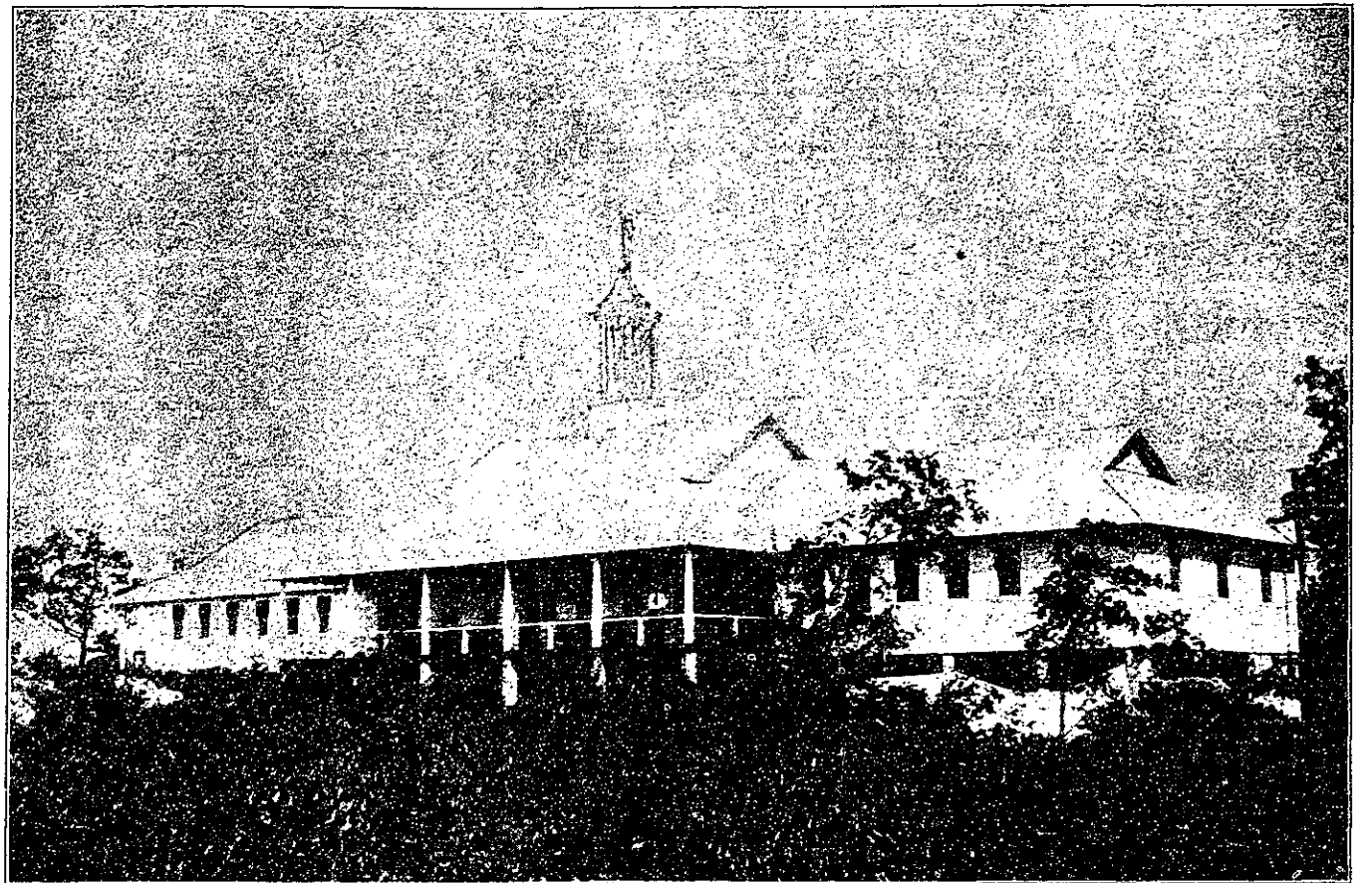
ARE college students dishonest? At Oklahoma State Teachers' College the officials seem to believe that, if not dishonest they are at least careless about paying their debts. They have made it a rule that no one is to be graduated from that school, and no student is to be recommended for a position, unless he has paid up all his debts.

How far conditions at Oklahoma may justify the ruling there, we do not know. But as a general thing, the college student is no more neglectful of the money he owes than any other type of person. In any group of people, be they college men or of any other class, there will be a certain proportion of good and bad; and the proportion is fairly constant.

As to the practicability of such a ruling, that is even less than its necessity. Undoubtedly many men accumulate debts which they expect to be able to pay, and when they come due find themselves unable to do so. For the most part, they will pay up at some later date. But to withhold the student's degree until he has paid, and to refuse to recommend him for any employment until his debts are squared is the best way to keep him from ever having the means to pay.

Finally, we have the question of how much right a college Faculty has to interfere in the lives of its students outside of their studies.

FAMOUS IRON MINES WILL SERVE AS LABORATORIES AT MINERS' CAMP



In the midst of a nest of historic mines in the state of New Jersey is located the summer mining camp for both course III and course XII men. The mines are located a few miles away from Dover, N. J., and directly on the Delaware, Lackawanna and Western Railroad. On the land of the Replogle Steel Company, owners of the mines, the Massachusetts Institute of Technology has leased a parcel of land amounting to some ten acres. Upon this land, within a short distance of operating mines, are located all the Institute structures, consisting of three cubicles and a central administration building.

At present, two new cubicles are being constructed, making in all five such structures. The cubicles are the quarters of the students and are sub-divided into six rooms, each room designed to house two students. The central administration building consists of a single large room, intended alternately for a lounge and class room, while two wings provide ample space for a drafting room and a dining hall. These buildings are

provided that they offer real home comforts, even though they are on land probably never inhabited by civilized people, and just a short distance from operating mines. Running water is provided with hot and cold showers and an electric lighting system.

The site of the Technology buildings at New Jersey was very well chosen, for the structures are situated on an attractive hill-top, 165 feet high and 900 feet above sea level, overlooking the sloping Succasunna plains, which finally melt into a distant valley. On the other side the camp is screened by a dense oak wood, a fine place for nature study, and affording seclusion and privacy.

The substantial character of the New Jersey mining industry is established by a long history, and these mines have been an important factor in the iron industry of the United States. The Replogle, formerly known as the Scrub Oak mine, the Richard Mine, and Mt. Hope mine, and the Washington mine are all very near at hand to the mining camp and, because they are equipped with mod-

ern machinery, afford good examples for the student of an efficient modern mining system. Any single one of these mines is capable of producing 600 tons of ore a day. The Replogle Steel Company's buildings which are located at Wharton, N. J., a mile away from the summer camp, smelts 600,000 tons of this ore annually. After a mining student once goes through a real mine and studies how the work is really being done, rather than gaining this knowledge from a text book, he finds his course more interesting and more simple.

The summer camp will open July 28 under the direction of Professor Hutchinson. Most of the time at the camp will be devoted to surveying, both surface and subterranean, the study of mining methods, and excursions to typical and interesting geological exposures.

The Technology land offers ample space for athletic contests and a short ride brings one to Lake Hopatcong, affording swimming and other diversions which are to be found at all large summer resorts.

THE OPEN FORUM

To the Editor of THE TECH:—From personal experiences and from stories told by others, it is evident that the Walker Memorial Gymnasium locker room is and has been for some time overrun by sneak thieves. However clever these sneaks are, it seems that all such annoyance is due, in its entirety, to the carelessness of the locker users. An open locker, a suit of clothes, and the owner in the showers is a temptation for any crook. The individual or group of individuals who are making a good living at this game, can be put out of business and forced to work another community if every man locks his locker upon leaving it for any reason.

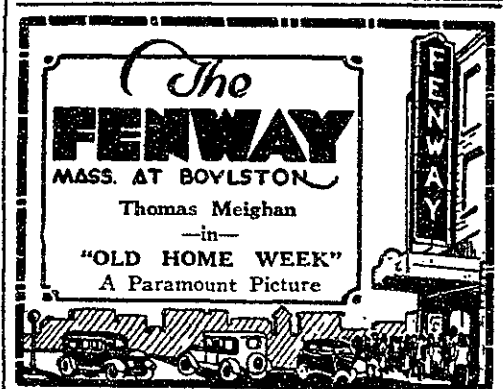
Members of the fencing team who use these lockers daily were being hard hit until they learned this lesson. Forty dollars having been taken from a fencer on one occasion and an overcoat from a member of the Dartmouth Fencing Team on another.

A detective is not necessary. The thieves will leave voluntarily when they see locked lockers every day.

(Signed)
Joseph L. Lewis '26.

Play Directory

COLONIAL: "Topsy and Eva." The Duncan Sisters in a good show.
COPLEY: "Gent Catherine." "The Showing up of Blanco Posnet." Two plays by Shaw.
PLYMOUTH: "Oh, Mama!" Reviewed in this issue.
ST. JAMES: "The Cat and The Canary." The thriller of thrillers.
SHUBERT: "Rose Marie." Musical Comedy of the Northwest. Good.
TREMONT: "No, No, Nanette." Lots of amusement, dancing and music.



Church Directory

TEMPLE ISRAEL—Commonwealth Ave.
Saturday, May 23, 10:30 A.M.—"The Simple Life." Rabbi Wolk.
Sunday, May 24, 11:00 A.M.—"Some More Crystallized Lies." Rabbi Wolk.
Monday, May 25, 8:00 P.M.—Young People's Society. Speaker—Abraham Wirin.

PROSPECT ST. CONGREGATIONAL CHURCH—Near Central Sq.
Sunday, May 24, 1925
10:30 A.M.—Morning Service.
12:00 M.—Sunday School. Prospect Class for Men.
6:15 P.M.—Young People's meeting.
7:30 P.M.—Sermon: "The Far Reaching Influence of a Good Woman."

TRINITY CHURCH—Copley Square.
Sunday, May 24, 1925
11:00 A.M.—Church School Commencement Service.
2:30 P.M.—Young People's Fellowship. Automobile tour through Marblehead and Salem.
4:00 P.M.—Knights Templars Service. Address by Rector.
7:30 P.M.—Evening Service. Address.

FIRST BAPTIST CHURCH—Corner Clarendon & Commonwealth Ave., Boston.
Sunday, May 24, 1925
10:30 A.M.—Morning Worship. Sermon by Rev. N. C. Fetter.
12:00 M.—Students' Bible Forum.
7:30 P.M.—Last meeting of the Students' Social Club. Senior Night. All are cordially invited to attend.

As We Like It

COMEDY AT PLYMOUTH IS SLIGHTLY RISQUE

"Oh, Mamma," at the Plymouth, is one of those plays that has quite an appeal for some but is found rather disgusting by others. As an adapted French comedy it lives up to the expected. There is the usual repeated reference to bedrooms, and mistresses play quite as important a part in the plot as wives.

Alice Brady, as the young wife of a middle-aged roue, brings into her role a certain amount of charm and was well received by the audience, but we can only hope that it was the actress and not the play that was applauded. They were intrigued by a small boy might be intrigued by the course but clever jokes of his elders.

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TENNIS TEAM MEETS DARTMOUTH

Engineers Will Meet Real Competition Tomorrow in Match with Hanover Team

The tennis team will face real opposition when they meet the Dartmouth players at Brae Burn tomorrow afternoon. The only defeat the team has had was at the hands of Harvard, but Dartmouth has some first class players who will furnish some good tennis.

Captain Russell will play number one as usual, and will probably face Boyd. After Russell's showing against Ingraham of Harvard in forcing him into three sets, a close match may be looked for here, and there is a good chance of Russell's coming through if he is in form.

Hinck will go in as number two again, having defeated Broadhurst in a practice match. A peculiar situation exists among the last three players on the team, Hinck having defeated Broadhurst but being beaten by Peck whom Broadhurst defeated. The standing seems to be tied up in a circle so Captain Russell has had to base his judgment in picking the men on their performance in the regular meets.

Broadhurst has not been in quite his regular steady form lately, but this

match may find him hitting the ball in his usual form, and if he is he will prove dangerous to his opponent.

Ken Peck will play as number four. He has been going in fine form in the last matches, taking his Wesleyan match without any difficulty in love sets.

An interesting match will be seen in the first doubles. Tressell of last year's team, paired with Russell defeated the Dartmouth pair of Boyd and Osgood in the semi-finals of the New Englands last year, and Russell and Hinck may repeat the victory in this match. They have played together in only one match so far, but seemed to team well together on that occasion.

Broadhurst and Peck will form the second doubles team. Both are steady players, and their best chance lies in wearing down their opponents.

The Tufts match announced for Wednesday has been postponed to this afternoon and will be played at Medford.

WHEN GETTING ESTIMATES ON PRINTING

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Twixt Nurmi's attempt to break the existing world's record in the mile, up at Harvard Stadium, and the New England Intercollegiate on Tech Field, the dyed-in-the-wool track fan will have a very busy time tomorrow afternoon.

It is interesting to note that practically every Boston paper has picked a probable winner in the games tomorrow and almost without exception each has chosen a different college to come out on the top of the pile.

Tom McCabe of the Herald is giving first money to Bowdoin with Boston College and Technology fighting it out for second honors. But it's hard to see how he figures the Bowdoin College for a decisive win, although the Brunswick Boys defeated the other Maine Colleges last Saturday in the Maine Intercollegiate meet.

It looks as if it would be a merry race for top honors between Tech, B. C., Bowdoin and Holy Cross with the result inclined a little toward the Engineers and Bowdoin.

Last year the meet was marred by a big gale which blew across the field and played havoc with both the running and field events, sweeping up great clouds of dust and hurling it down the track right into the face of the runners.

In order to eliminate any chance of this same condition this year the track management has planned to sprinkle the whole area of the field, thereby laying the dust. If no unforeseen complications develop the track and runways will be in fine condition for any record performances although there are no men who are certain of making a record-breaking performance.

TECH FIELD SCENE OF NEW ENGLANDS

Steinbrenner, Sanford, Leness and Drew Loom as Stars For Technology

(Continued from Page 1)

Murphy of B. C. and Harold Littlefield of Bowdoin, who finished second, third and fourth, respectively last year are in the running again this year.

Leness Looks for Win in 880 Both sprints should be won by Middlefield of Colby who placed in both last year, and who has been cleaning them up pretty regularly in all the dual meets as well as in the Maine intercollegiate last Saturday. However he will be given plenty of competition by Taylor of Williams and Farrington of Bowdoin who run the century in evens and the furlong in little slower time.

Tierney of Holy Cross and Carpenter of Worcester Tech have both been timed in 22 flat for the furlong this year, so that between these runners and Broda of Brown, Lou Porter and Al Kauzman of Technology, the sprints should turn out to be real races with a possible tying of the records in both events.

The big race of the day looms up in the half mile. Captain Foster of Bowdoin will strive to win the New Englands 880 title for the third successive time. He will have plenty of competition however from George Leness of the Institute who is quite capable of getting down near 1 m. 55 s., and McClosky and McKillop of B. C., both of whom have touched 1 m. 55 s. The coaches of each of these runners are willing to stake their all in backing his own man, so that is the kind of a race that will take place Saturday afternoon.

Captain Drew in Field Events In the one mile race Leo Larrive of Holy Cross, Louis Welch of B. C., Clarence Archibald of Bates, will fight it out for first honors while K. A. Smith, of Tech, lacking only experience, will endeavor to score a point. George Lermond of B. C. has the two mile pretty well sewed up. His times this season have varied from 9 m. 39 3-5 s. to about 9 m. 50 s. The only one to approach these are Wells of Bates with 9 m. 46 s., Hagelstein of Amherst with 10 m. 3 s., Frank Bemis of Technology with 10 m. 5 s., and Wills of Bowdoin with 10 m. 6 s.

If Captain Garvin Drew of Technology were only in form and not concentrating in the high jump, the Engineers would be sure of 5 points in the hammer throw. Drew won the event last year with a toss of 142 feet 4 1-2 inches, but since the interclass games, when he threw it 148 feet, he seems to have fallen off, so that tomorrow it would be a very pleasant surprise if he won either first or second place. Technology supporters hope for the best. Wentworth of Colby, who won second

(Continued on Page 4)

Frosh Track Team Will Meet Brown Outfit Tomorrow

Engineer Frosh Look to Chute, Kirwin and Miller for Main Support

While the varsity track team is fighting for supremacy in the New Englands the frosh cinder outfit will journey to Providence in an endeavor to take the measure of the Brown yearlings. Although the first year men were defeated last Saturday by the University of New Hampshire freshmen, they will be the favorites to cop the decision tomorrow.

Kirwin, Chute and Miller are expected to be the main guns for the Engineers in the track events with Farwell, Parks, and Titherington starring in the field events. Pete Kirwin's win last Saturday in the half mile makes him the favorite to repeat in that event tomorrow, although he will encounter some stiff opposition in the Brunonian 880 men.

Captain Eddie Chute will probably win the mile run tomorrow without much opposition as there are no milers in the Brown freshman ranks who can get down to Chute's figures for the distance. If Miller has recovered sufficiently from the tendon which he pulled in the New Hampshire meet he will be a strong contender in the sprints.

Joe Farwell, who figured so prominently in the frosh win over the Sophs in Monday's ball game is favored in the high jump. Last Saturday Farwell leaped to a win and he has been going good all spring in the jump.

New England Athletes Will Strive To Break These Records Tomorrow

EVENT	N.E.I.C.A.A. RECORD	RECORD HOLDER
100 Yard Dash	9 4-5 seconds	Kelley, Holy Cross
220 Yard Dash	21 2-5 second	Kelley, Holy Cross
440 Yard Dash	49 1-5 seconds	Driscoll, B. C.
880 Yard Run	1 minute, 55 3-5 seconds	Taber, Brown
1 Mile Run	4 minutes, 18 3-5 seconds	Taber, Brown
Two Mile Run	9 minutes, 35 3-5 seconds	Atwater, Tufts
High Hurdles	15 1-5 seconds	Shaw, Dartmouth
Low Hurdles	24 2-5 seconds	Savage, Bowdoin
Shot Put	47 feet, 10 1-2 inches	Whitney, Dartmouth
Hammer Throw	168 feet, 11 inches	Tootell, Bowdoin
Discus Throw	135 feet, 5 9-10 inches	Whitney, Dartmouth
High Jump	6 feet, 7-16 inches	Dalrymple, M. I. T.
Javelin Throw	155 feet, 3 inches	King, Wesleyan
Broad Jump	23 feet, 10 1-4 inches	Worthington, Dartmouth
Pole Vault	12 feet, 6 1-4 inches	Wright, Dartmouth

Richards Cup Race Aspirants Go Through Workout this Afternoon

Close Fight Expected Between Freshman and Sophomore Delegations

Aspirants for honors in the Richards Cup crew race are resting on their oars after last workout today. The eights have been brought along in condition at a fairly rapid clip, so that the layoff will keep the men from going stale.

Indications points to a close fight between the Freshmen and Sophomore eights in the contest for premier honors. Both crews have been skimming the Charles in great fashion and are ready at any time to jump into their shells. The splendid fashion the Frosh took the measure of the Harvard Second yearlings, skipping across the finish line two lengths in front of the Crimson, is a

*fairly good indication of their power.

A new sidelight to the training program has arisen due to the Varsity men undertaking to aid in the coaching of their respective class representatives. No small amount of aid has been volunteered by the Engineers to insure the perfection of their eights. Rivalry has developed among the pseudo coaches in order to bring out the best trained group of oarsmen.

Although the Seniors and Juniors are possessors of fairly heavy crews, they are not quite as strong as the lower classmen. The Frosh seem to have the edge as far as condition, experience and power is concerned, but there is no telling into what the race will develop. A close and interesting struggle is on tap for Saturday's encounter and it will be impossible to pick a winner before the finish line is crossed. Too often have the "form-players" gone wrong.

Technology Athlete Turns Blacksmith

Although there is no course in blacksmithing listed in the Institute curriculum, Sol Brodsky, Varsity shot-putter is, according to latest reports from the track-house, seriously considering the horse-shoeing trade as a future profession. One day last week Saul showed up at practice carrying a very curiously shaped ball of lead, which had evidently been fashioned out of many smaller chunks. No one at the track-house could figure out what on earth it could be, but in course of time he explained that, becoming disgusted with the ordinary weights, he had decided to make one of his own, and this was the result.

Brodsky's shot is regulation weight, but whether or not he will be allowed to use it in the meet tomorrow is up to the officials, because of its weird shape. It would be a good thing if he were allowed to "put" it in the New Englands, as it will undoubtedly have a great psychological effect on his heave. When approached on the subject he stated that he would make no rash promises but, should he have the success he expects to with it, he will probably consider taking out a patent.

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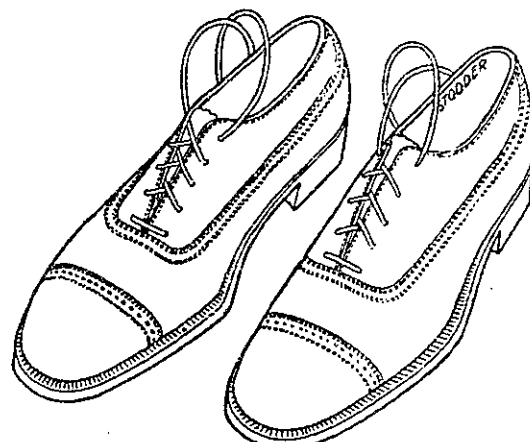
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Seek Process for Making Alcohol to Compete with German Product

Chemical Engineering Research Lab Is Now Working on The Problem

An attempt is being made by the Research Department of Chemical Engineering to perfect a process that will allow the manufacturers of wood alcohol in this country to compete with the new German process of making methanol, Professor R. T. Haslam of the Department said yesterday.

Starting a number of years ago the Germans conceived the idea of trying to bring about certain gas reactions under very high pressures up to 10,000 to the square inch, which would not proceed under normal pressures. During the war Germany used this idea to make nitrogen from the air and thus saved herself from being completely shut off from nitrogen which is used in high explosives.

The second product, namely, methanol is now being manufactured and is shipped over to the country and can easily undersell the American product, Professor Haslam explained. Unless a new process is soon developed this industry which is valued at \$100,000,000 and which turns out products yearly worth about \$35,000,000 will be completely ruined.

To prevent this ruination of one of the large and prosperous industries in

this country is the aim of the members of the Research Department of Chemical Engineering. Six or eight laboratory assistants will work full time this summer in an attempt to discover this process or produce one as good. There are also five other laboratories of private industrial firms which will be working on the idea and time alone will tell whether ruination or success will be the ultimate result, for it is either one or the other, there being no half way measure.

This reaction of gases under pressure will be used to develop a means of making chemical gases from coal and in this way chemical warfare will receive a great boon.

NEW CATALOGUE WILL APPEAR BEFORE EXAMS

It is expected that the new catalogue of courses for next year will make its appearance during the first part of June, probably before the examinations start, according to Registrar J. C. MacKinnon.

There will be very few changes in the required subjects for each course. The only difference will be that the time for each course will be divided up so that it will be possible to give substantially the same instruction under the new system as under the old.

NEW ENGLANDS TO BE ON TECH FIELD TODAY

(Continued from Page 3)

last year will be the probable winner.

Charles Drew of Amherst is expected to win the high jump with a leap of better than six feet. Chink Drew of Tech who jumped to first place last Saturday against Cornell with the bar at 5 ft. 11 1-2 inches, should be good for a second, and he would not surprise many followers of the game if he game across with a win.

New Record In Discus

Major Sanford in the pole vault is more certain of a first place than any other contestant, outside of Duke Charles of Bowdoin. Sanford was only able to get a second last year, but no one has been able to approach the fine record he has already made this season and he seems to have the New England title for his specialty under lock and key.

One record sure to go in the procession tomorrow is that in the discus throw. The present record is 135 feet. But Duke Charles of Bowdoin has repeatedly done better than 145 feet this season, so draw your own conclusion. Saul Brodsky of Tech may score in this event as well as in the shotput which is expected to be won by Bowdoin's star, Wellington Charles. There are three 1924 scorers left in Finn of B. U., who was second, L. F. Griff of M. A. C. who was third and J. J. Bancher of Wesleyan who was fourth.

CONCLUDES TALKS ON COLORIMETRY

Dr. I. G. Priest Gives Method Of Practical Color Specification

Dr. Priest of the Bureau of Standards gave his concluding lecture on Colorimetry in 4-231 last Wednesday. During his final lecture, he took up some of the fundamental principles and the instruments used in colorimetry.

The lecture was amply illustrated by slides, showing the various types of apparatus used by the Bureau in Washington. Much of the apparatus is very complicated, and massive in its proportions, easily filling a room. For the various adjustments of the instruments, the operator must use both feet as well as his hands. Dr. Priest casually remarks that in spite of the massiveness of these machines, they actually do work, and very precisely, also.

Everything With Color Submitted
Dr. Priest also stated that in his 18 years at the Bureau almost everything that had color had been submitted at one time or another for examination and analysis. "It would be far easier to enumerate the things that have not been examined than it would to list those that have been analyzed at the Bureau," he said.

NEW T. C. A. CABINET MAKES SUMMER PLANS

At the first meeting of the new T. C. A. cabinet held Tuesday night it was voted to make the treasurer of the T. C. A. also the treasurer of the book exchange. Heretofore the manager of the book exchange has been treasurer as well and has only been accountable to the T. C. A. An appropriation of \$50 was authorized for a new filing department for the undergraduate employment bureau in order to assure a greater efficiency in records.

The work of the year was gone over briefly and plans for the summer and fall discussed. It was decided that it would be advantageous for as many men as possible of the cabinet and division managers to attend the Silver Bay convention because of the fact that Silver Bay is a training center for cabinet members as well as an inspirational conference for all students. R. H. Head '26 was elected as cabinet member to the executive committee of the T. C. A.

This will be the only meeting of the cabinet this term since the next meeting would fall during the examination period and will therefore be omitted.

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R. O. T. C. EXAMS

R. O. T. C. Students going to summer camp who have not yet been examined physically must get their doctors to examine them on the War Department form which may be obtained from the Department of Military Science. This must be done at once.

CABOT MEDALS

In order to be eligible for the Cabot Medals for physical improvement all freshmen must sign up for their physical examination by the end of this week.

UNDERGRADUATES

EH THEMES

Students who took English and History with the class of 1925 may get their themes in room 2-285.

AERO SOCIETY FLIGHTS

Information concerning time of flights and directions to reach airport as well as information about postponement in case of unfavorable weather conditions may be obtained on typewritten sheets at the Information Office.

MUSICAL CLUBS

There will be a very important meeting of management of the Musical Clubs in the office on Monday, May 25, at 5. All men on the management must be there.

MONADNOCK TRIP

Every one interested in trip to Mt. Monadnock tomorrow and Sunday May 23-24, see notice on bulletin board in main lobby.

SILVER BAY

All men contemplating being in the Technology Silver Bay delegation meet tonight in the T. C. A. back office at 5.

SAINT CECILIA'S COLLEGE CLUB

The Saint Cecilia's College Club invites the members of the Tech Catholic Club and their friends to an informal dance to be held at St. Cecilia's Hall, Belvedere Street, tonight at 8.

CATHOLIC CLUB

The Federation of Catholic Clubs has their annual communion breakfast at the Hotel Lenox Sunday May 24 at 10.30 o'clock. The mass is at St. Cecilia's Church at 9.00 o'clock. The members of the Technology Catholic Club are urged to be present.



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BENCHMARK COMPETITION

Benchmark competition closes Monday May 25 at 5.00 P.M. All advertising material and a short report is due in THE TECH business office, room 302 Walker, at this time.

CIVIL SOCIETY ELECTIONS

Election of officers to the Civil Engineering Society will be held Monday in room 1-375 from 9 to 5. The results will be announced at the banquet next Wednesday evening.

CATHOLIC CLUB

The New England Federation of Catholic Clubs is running a tea dance at the Hotel Vendome tomorrow from 3 to 6. The members of the Tech Catholic Club and their friends are cordially invited to attend.

DORM DANCE

A semi-formal Dorm Dance will be held tonight in the Main Hall, Walker. The Technicians will play. Tickets \$2.50 per couple, on sale in the main lobby today from 12 to 2 o'clock.

M. I. T. MATH CLUB

Dr. King of the Harvard Observatory will speak on "The Extent of the Universe" at the next meeting of the Math Club, Monday, May 25 at 8, in North Hall of Walker. Everyone interested is invited.

AERO SOCIETY TRIP

Members of the Aeronautical Engineering Society wishing to make the trip this afternoon to see Warren Noble's new hydraulic valve motor and research laboratories at Jamaica Plain, must meet in the main lobby at 3.05.

CHORAL SOCIETIES

There will be a meeting on Friday, May 22, at 5 P. M., in Room 5-330, preparatory to going to Evans Memorial Sunday. All members will meet at Evans Memorial on Sunday, May 24, at 3 P. M. Take a Harvard car going to Dudley, get off at Northampton Street, turn to left down Washington Street, keep going until you reach East Concord Street (three blocks down), turn down East Concord until you reach Evans Memorial. Everybody out.

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